



Dawn Launch Weather Forecast

Vehicle: Delta II-H

Issued: 25 Sep 07 8 a.m. EDT

Valid: 27 Sep 07 7:20 – 7:49 a.m. EDT

Synoptic Discussion: Surface high pressure over the western Atlantic will result in onshore flow throughout the week. In such a regime, morning coastal showers occur over the gulf stream and migrate toward the coast. Afternoon thunderstorms are expected as the sea breeze sets up and pushes inland. A weak tropical wave along the southern periphery of the surface high may enhance shower activity along the coastal waters. There are some discrepancies between the numerous forecast models as to the strength and timing of this wave, but the general consensus is to affect the Florida coast Wednesday into Thursday. **During the countdown and launch window the main concern will be for the coastal showers near the launch site and flight path.**

Clouds
Cumulus

Coverage
Scattered

Bases (feet)
3,000

Tops (feet)
20,000

Weather: Showers in the vicinity
Visibility: 7 Miles
Wind: 140° @ 10 G 15 KT
Temperature: 74-76°F

Solar Activity: Low
Pressure: 30.03 INS
RH: 80%

Launch day overall probability of violating weather constraints: 40%
Primary concern(s): Cumulus Cloud Rule, Precipitation

24-hour delay overall probability of violating weather constraints 30%
Primary concern(s): Cumulus Cloud Rule, Precipitation

48-hour delay overall probability of violating weather constraints N/A
Primary concern(s):

Sunrise: 27 / 0713 EDT
28 / 0714 EDT

Sunset: 27 / 1913 EDT
28 / 1912 EDT

Moonrise: 26 / 1908 EDT
27 / 1944 EDT

Moonset: 27 / 0801 EDT
28 / 0911 EDT

Illumination: 27 / 100%
28 / 98%

Next forecast will be issued: 26 Sep 07